

How to Load Demo Software onto the STM32F429ZI Discovery Board

There are two versions of the STM32F429I Discovery Board, distinguished by a single digit at the end of the part number that appears just above the display on the board.

If you have the newer board (**STM32F429I-DISC1**), then all you need to do is to copy the .bin file of one of the demo programs to the folder that opens (like a USB stick) when you connect the board to your computer.

If you have one of the older boards (**STM32F429I-DISCO**), then you need to use the ST-LINK Utility Program to load a demo program onto the board.

PROCEDURE FOR THE OLDER STM32F429I-DISCO BOARDS:

1. Download and install the ST-LINK Utility program. There is a link on the textbook support website at <http://www.cse.scu.edu/~dlewis/book3/> to the download site.
2. Run the ST-LINK Utility program:
 - a. The install process should place a new icon on the desktop labelled "STM32 ST-LINK Utility". If so, simply double-click on the icon to run the program. Otherwise, start the program from the start menu.
 - b. Once the program opens, click on "File" at the top of the screen and select "Open File". In the window that opens, navigate to the .bin file of the desired demo program for the board and select it.
 - c. Connect the Discovery board to your computer using the USB cable.
 - d. Once the .bin file has been opened, click on "Target" at the top of the screen and select "Program...". A screen will pop-up (see below); check that the "Start address" is 0x08000000 and then click "Start". It will take around 30 seconds to download the software to the Discovery Board. When it finishes, the Discovery board will automatically start executing the demo software. At that point you may close the ST-LINK Utility Program.

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